Committee: N14 - Packaging and Transportation of Radioactive and Non-Nuclear Hazardous Materials
Date of Report: March, 2003

Grouping	Document Number, Title & Project Number, & Chair	Brief Summary and Objective of Project	Project Status and Estimated Completion
Group 1 -- **Standards approved by ANSI and N14 is required to maintain (update at least every 10 years).**	N14.1 - 2001 - "Packaging of Uranium Hexaflouride for Transport" Doyle Warriner, Chair	This standard provides criteria for packaging of uranium hexaflouride for transport.	Standard approved by ANSI February 1, 2001. Addendum 1 to N14.1-2001 was approved 4/3/02 and has been published.
	N14.5 - 1997 - "Leakage Tests on Packages for Shipment" L.E. Fischer, Chair	This standard specifies methods for demonstrating that Type B packages comply with the package containment requirements of Title 10 of the Code of Regulations, Part 71, or of the International Atomic Energy Agency (IAEA) Regulations for the Safe Transport of Radioactive Materials, for design verification and periodic verification.	Standard approved by ANSI February 5, 1998.
	N14.6 - 1993 - "Special Lifting Devices for Shipping Containers Weighing 10,000 Pounds (4500 kg) or More for Nuclear Materials" George Townes, Chair	This standard sets forth requirements for the design, fabrication, testing, maintenance, and quality assurance programs for special lifting devices for containers weighing 10,000 pounds (4500 kg) or more for radioactive materials.	Review for an update has been completed. Extension has been granted by ANSI to 6/27/03. Estimated Completion Date: 2003

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Group 1 -- Cont.	N14.24 - 1985 (R1993) - "Domestic Barge Transport for Highway Route Controlled Quantities of Radioactive Materials" David L. Cummings, Chair	This standard identifies the organizations, equipment, operations, and documentation that are involved in domestic (i.e., between U.S. ports) barge shipments of highway route controlled quantities of radioactive material (RAM) on inland waterways and in coastwise and ocean service.	Writing Group has been formed and revision process has started. Extension granted by ANSI to 6/27/03. Estimated Completion Date: 2003
	N14.27 - 1986 (R1993) - "Carrier and Shipper Responsibilities and Emergency Response Procedures for Highway Transportation Accidents: Ella McNeil, Chair	The scope for this standard encompasses the preparation and execution by carriers and shippers of their emergency response program. It does not include the responsibilities of the "first-on-the-scene" response personnel, the actions of governmental authorities, or the specific responsibilities of the carrier or shipper during recovery operations.	Final draft submitted to N14 for balloting 4/5/02; comments are being considered by the Subcommittee. Extension granted by ANSI to 6/27/03. Estimated Completion Date: 2003
	N14.29 - 1998 - "Guide for Writing Operating Manuals for Packaging" Dennis McCall, Co-Chair Mike Burnside, Co-Chair	This guide describes the preparation and distribution of operating manuals for the use, maintenance, and inspection of packages for shipping radioactive material. It prescribes the contents of such a manual and their arrangement, and contains a sample manual that can be used as a model.	New PINS submitted 4/5/02. (Had been administratively withdrawn 10/23/01.) Draft has been circulated to a small group of experts for review prior to N14 balloting. Estimated Completion Date: 2003

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Group 1 -- Cont.	N14.30 - 1992 - "Design, Fabrication, and Maintenance of Semi-Trailers Employed in the Transport of Weight-Concentrated Radioactive Loads" Ralph Best, Chair	This standard established the design fabrication, and maintenance requirements for the "highway" transport of weight-concentrated radioactive loads. A weight-concentrated load is any payload that exceeds 1000 pounds per lineal foot over any portion on the semi-trailer. In addition, the standard provides detailed procedures for in-service inspections, testing, and quality assurance.	Revision of this standard was started in 1998. The Chair collected information for a proposed revision and a meeting of the Writing Group was held October 22-23, 1998. A draft for a proposed revision is in preparation. A new Chair is being sought.
Group 2 -- **Projects that are currently under development and may result in standards after approval by ANSI and N14.**	N14.2 - "Tiedowns for Transport of Fissile and Radioactive Containers Greater Than One-Ton Truck Transport" Vacant, Chair	This standard prescribes general requirements for securing packages of radioactive materials so they are not likely to come off their vehicles in the worst non-accident events of highway transportation. In accidents, packages secured as prescribed in this standard may come off their vehicle.	N14 balloting was completed April 23, 1999. There were several negative ballots which require resolution. The N14.2 Chair has resigned. It is proposed that N14.2 be combined with N14.31. Chair of N14.31 is acting as temporary chair.

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	N14.7 - "Guide to the Design and Use of Shipping Packages for Type A Quantities of Radioactive Materials" R.R. Rawl, Chair	This standard provides guidance for persons responsible for activities involving the packaging of radioactive materials in Type A quantities. Its major topics include: (a) definitions; (b) description; (c) responsibilities; (d) quality assurance; (e) design; (f) fabrication; (g) regulatory requirements; (h) use; and (I) reuse.	The existing draft of the standard has been circulated to the drafting group for review. The drafting group agrees that its content is still generally suitable, but several needed revisions will be made and it will be coordinated with the chair of writing group N14.26. The resulting draft will then be circulated to the full writing group for consideration. Estimated Completion Date: 2003
Group 2 -- Cont.	N14.23 - "Design Basis for Resistance to Shock and Vibration of Radioactive Material Packages Greater Than One Ton in Truck Transport" Ken Gwinn, Chair	This standard specifies minimum design values for shock and vibration in highway transport, by truck or tractor-trailer combination, for radioactive materials when package weight exceeds one ton.	Balloting of the proposed standard was completed December 1, 1998. Negative ballots are currently being resolved and a second draft and re-ballot is underway. Estimated Completion Date: 2003
	N14.26 - "Fabrication, Inspection, and Preventative Maintenance of Packaging for Radioactive Materials: Kevin Nelson, Chair	This standard provides requirements for the fabrication, maintenance, and inspection of reusable Type A packages (non-fissile) to ensure the packaging is: (1) properly fabricated in accordance with appropriate specifications, (2) properly maintained, (3) properly inspected, and (4) properly assembled for shipment.	A first draft is currently being prepared.

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	N14.31- "Standard Tiedowns on Legal Weight Transport System (80,000 lbs) for Packages Containing Hazardous Materials and Weighing Greater than 500 Pounds" Chair - vacant	This standard provides a method for defining an appropriate tiedown system through the use of a simple, computer-based Tiedown Stress Calculation Program. The standard describes general requirements for securing hazardous materials packages to conventional trailers. The packages have a suitable base plate (pallet or skid) or flat base, and appropriate size/arrangement of tiedown assemblies for packages can then be determined.	Comments received from Writing Group. Text and computer model need work. IAEA recently modified package securement requirements (ST-2, 1998) and results need to be considered in modifying the draft standard. Additionally, the Federal Motor Carrier Safety Administration Final Rule published September 27, 2002 contains acceleration-based regulations and these requirements need to be appropriately addressed in the standard. A new Windows-based computer model has been developed and is being beta tested. Estimated Completion Date: 2004

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Group 2 -- Cont.	N14.32 - "Gas Generation in Packages Used for the Storage or Transport of Radioactive Materials" L.E. Fischer, Chair	The scope of this standard is gas generation in packages used for the transport or storage of radioactive materials. This standard includes, but is not limited to, the following gas generation mechanisms: radiolysis, chemical reactions, thermal expansion, and biological degradation. This standard will provide a consistent approach to testing, analysis, and mitigation of gases that could cause a pressure building up or a potentially flammable mixture in a package containing radioactive materials.	A PINS form has been prepared. N14 balloting of title and scope was completed and approved with a few comments. A Writing Group has been formed. Activities have been suspended until additional information has been obtained.
	N14.33 - "Storage and Transport of Damaged Spent Nuclear Fuel" Bill Lake, Chair	This standard defines terms related to storage and transport of damaged spent nuclear fuel. It establishes procedures for identifying damaged fuel. It provides storage and transport requirements for canning damaged fuel; procedures required to identify source terms for damaged fuel, determine the need for double containment for transport; requirements for double containment; and requirements for demonstrating spent nuclear fuel condition.	Project started in May 2000. PINS form has been submitted. Writing Group has been formed and a first draft is nearing completion. Estimated Completion Date: 2003

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Group 2 -- Cont.	N14.34 - "Human Factors Affecting the Safety of Packaging/Transport of Radioactive Materials" Corrine Macaluso, Chair	This standard will address the "human/machine" interface and how it affects safety of radioactive materials packaging and transport.	PINS submitted to ANSI 4/30/02. Subcommittee is forming.
Group 3 -- **Projects that are currently inactive.**	N14.8 - "Fabricating, Testing, and Inspection of Shielded Shipping Casks for Irradiated Reactor Fuel Elements" Chair to be selected.	Scope will be prepared after questionnaire is completed.	Questionnaire was completed 6/15/00. Plans are being made to develop a standard. A new Chair is being sought.
	N14.25 - "Tiedowns for Rail Transport of Fissile and Radioactive Material Containers" Vacant, Chair	This standard applies to attachment or tiedown of containers of radioactive materials to railroad cars where the gross weight of the containers exceeds one ton.	A Chair is being sought.